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This Genetically Engineered Ingredient Is in Nearly Everything You Eat

Herbicide-glyphosate-resistant crops are now the most widely grown type of GE crop and the key ingredient in the Roundup weed killer you can consume, yet it's banned in nearly all processed foods.

By Dr. Joseph Mercola

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Story at a glance

- Two of the most harmful ingredients in processed foods are high fructose corn syrup and soybean oil. Another partially hydrogenated type oil is made from lower soybean varieties rendered in such a way as to not require hydrogenation.
- Genetically engineered (GE) soybeans are engineered to resist the patented herbicide-glyphosate crops (agriculture and chaos in your body on a daily basis). Glyphosate is a broad-spectrum herbicide that kills any plant from interfering with soybeans by interrupting the shikimate pathway.
- Besides the health hazards related to the trans fats created by the partial hydrogenation process, soybean oil is by and of itself, NOT a healthy fat.
- Add to that the fact that the majority of soybeans grown in the U.S. are genetically engineered to withstand direct application of glyphosate, which may have additional health consequences as well.
- There are no long-term safety studies.
- Most of the soybean oil in the genetically engineered (GE) soybean oil becomes one of the absolute worst types of trans fat consumers.
- The genetically engineered (GE) variety planted on over 90% of U.S. soy acres is Roundup Ready soybeans, which are engineered to withstand direct application of Monsanto's Roundup herbicide-glyphosate. Glyphosate is a chemical that has been found to contain residue levels as high as 17.7 mg/kg, and malformations in frog embryos have been observed at just over 1 mg/kg.

Processed food is perhaps the most damaging aspect of most people's diets, contributing to poor health and chronic disease.

One of the primary culprits is high fructose corn syrup, the dangers of which I've written about extensively over the last 10 years. The second culprit is partially hydrogenated soybean oil.

These two ingredients, either alone or in combination, can be found virtually in every processed food. Sugar is also a problem, but not to the same degree, because on these two foods is a primary contributing factor for most of the degenerative diseases attacking Americans today.

Part of the problem with partially hydrogenated soybean oil is the trans fat it contains.

The other part relates to the health hazards of soy itself. An added hazard factor is that 93% of soybeans grown in the U.S. are genetically engineered (GE).

In the negative health effects from trans fats have been identified and recognized, the agricultural and food industries have come up with a number of new alternatives.

Partially hydrogenated soybean oil has been identified as the main culprit and for good reason.

Unfortunately, processed fats are still modestly considered unhealthy by many health "experts," so rather than embracing truly healthful butters and tropical coconut oil, which is mostly grown outside the U.S., the food industry has instead turned to blending GE alternatives offered by companies like Monsanto, now Bayer (which bought out Monsanto in 2018), which has developed soybeans that don't require hydrogenation.

Why hydrogenate?

Americans consume more than 16 million metric tons of edible oils annually, and soybean oil accounts for about 7.5 billion pounds.

Until Monsanto genetically engineered its soybeans to be resistant to Roundup herbicide, about half of it was hydrogenated, as regular soybean oil is too unstable otherwise to be used in food manufacturing.

One of the primary reasons for hydrogenation is to prolong its shelf life. Raw butter, for example, is likely to go rancid far quicker than margarine.

The process also makes the oil more stable and raises its melting point, which allows it to be used in various types of food processing that uses high temperatures.

Hydrogenated oil is made by forcing hydrogen gas into the oil at high pressure and temperature. The addition of hydrogen to the oil is a process in which as much half of the fat content is trans fat.

The process that creates partially hydrogenated oil alters the chemical composition of essential fatty acids, such as linoleic and linolenic acid, making it highly reactive (unsaturated fats) and, transforming it into the fat less recognizable to your body and thereby greatly promoting oxidative damage and inflammation.

In the late 1990s, researchers began realizing the chemical alteration might actually have adverse health effects this time, scientists have verified this to the point of no dispute.

Be aware that there's a difference between "hydrogenated oils" and "partially hydrogenated oils. Whereas partially hydrogenated oils contain trans fat, fully hydrogenated oils do not. Fully hydrogenated oils are solid fats that do not contribute the molecular transformation of healthy fats into unhealthy saturated fatty acids.

Fully hydrogenated soybean oil is still not a healthy choice, however, for reasons I'll explain below. The following slide presentation explains the technical aspects relating to the hydrogenation process.

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The health hazards of trans fats

The completely unnatural trans fats created through the partial hydrogenation process are hazardous and I have in your body on a certain level, and studies have linked trans fats to:

- **Cancer** — by interfering with enzyme your body needs to fight cancer
- **Chronic health problems** such as obesity, asthma, auto-immune disease, cancer and bone degeneration.
- **Diabetes**, by interfering with the insulin receptors in your cell membranes
- **Heart disease** — Trans fats raise your bad cholesterol (LDL) and lower the cholesterol (HDL) that helps protect against heart disease (and actually remove trans fat). Trans fats increased the risk of heart disease by almost three-fold).
- **Immune-system function**, by reducing your immune response.
- **Increased blood levels of low-density lipoprotein (LDL)** or "bad" cholesterol and lowering levels of high-density lipoprotein (HDL) or "good" cholesterol.
- **Reproductive problems** by interfering with enzymes needed to produce sex hormones.
- **Interfering with your body's use** of beneficial omega-3 fats.

As usual, it took many years before conventional health recommendations caught up and began warning about the use of trans fats.

Not surprisingly, as soon as the U.S. Food and Drug Administration (FDA) confirmed that trans fat increased heart disease risk, food companies began to reformulate their products to remove trans fats. In 2006 — the industry began searching for viable alternatives to appeal to consumers who were no longer looking for the "no trans fat" designation.

It didn't take long before Monsanto had indeed birth a genetically engineered soybean that is low in linolenic acid, which itself can cause problems.

Soybean oil is the most widely consumed edible oil, and is simply not healthy — in fact, allowed by the FDA, as any product containing up to 0.5 grams of trans fat per serving can still legally claim to have zero trans fats.

The trick is to reduce the serving size to below the threshold. At times, this will result in unreasonably tiny serving sizes, so any time you check a label and see "zero trans fat" on it, be sure to check the ingredients for partially hydrogenated oils.

The health hazards of soybeans

Besides the health hazards related to the trans fats created by the partial hydrogenation process, soybean oil is, in and of itself, NOT a healthy oil.

Add to that the fact that the majority of soy grown in the U.S. is genetically engineered to withstand direct application of glyphosate, which may have additional health consequences as well. There are no long-term safety studies.

Most of the soybean oil in the genetically engineered (GE) soybean oil becomes one of the absolute worst types of trans fat consumers.

The genetically engineered (GE) variety planted on over 90% of U.S. soy acres is Roundup Ready — engineered to survive being sprayed with massive amounts of Monsanto's Roundup herbicide.

The logic behind Roundup Ready crops such as soy is that you can decrease the risk of production by killing off everything except the actual soy plant.

However, animal studies reveal there may be significant adverse health effects from these GE soybeans, including progressively increased rates of infertility over the course of several generations.

As explained by Monsanto:

> "Farmers are not the only beneficiaries of Monsanto's efforts. … Consumers will also benefit from the healthier crops that could result. For example, soybeans that are low in linolenic acid. Linolenic acid, a precursor to trans fats, may contribute to cardiovascular disease.
>
> "Low linolenic soybeans reduce the need for hydrogenation in food processing, helping to reduce the amount of trans fats in processed foods."

Yet another soybean variety created by Monsanto is the high-oleosoybean, which is also said to reduce the need for hydrogenation of processed foods.

Another hazard of all soybeans: Glyphosate

I keep clearing health risks upon health risks and here's another one: Research has found that glyphosate, the active ingredient in Monsanto's Roundup herbicide, the most significant in Roundup — the broad-spectrum herbicide created by Monsanto.

According to a report in the Journal Chemical Research in Toxicology, the ingredients 90% for glyphosate in food and found residues in the 10 to 25 mg/kg. GE soybeans have been found to contain residue levels as high as 17.7 mg/kg. Glyphosate has been found to cause embryo apoptosis at just 0.9 mg/kg. That's 5 times lower than the 5%.

This is an alarming finding because glyphosate is nearly one of the world's most overlooked poisons.

Research published in 2010 showed that the chemical, which works by inhibiting an enzyme called EPSP synthase that is necessary for plants to grow, causes birth defects and other developmental disorders at far lower levels than label and agricultural and garden applications. The malformations primarily affected the:

- Skull
- Face
- Midline and developing brain
- Spinal cord

When applied to crops, glyphosate becomes systemic throughout the plant, so it cannot be washed off.

And, once you eat this crop, the glyphosate ends up in your gut where it can decimate your beneficial bacteria.

This can wreak havoc with your health, as 80% of your immune system resides in your gut (GALT, or Gut-Associated Lymph Tissue) and is responsible for healthy rates of good and bad bacteria. Separate research has also uncovered the following effects from glyphosate:

- Endocrine disruption
- Cell death
- Developmental toxicity
- Neurotoxicity
- Reproductive toxicity
- Cancer

How to avoid GE soybeans

If you want to avoid dangerous bits of shreds, your best bet is to eliminate processed foods from your diet. From there, use these tips to make sure you're eating the right fats for your health:

- Use organic butter (preferably made from raw milk) instead of margarines and vegetable oil spreads. Butter is a healthy whole food that has received a bad reputation unjustly.
- Use coconut oil for cooking. It is far superior to any other cooking oil and is loaded with health benefits.
- Be sure to eat raw fats, such as those from avocados, raw dairy products, olive oil, olives, organic pastured eggs and raw nuts, especially macadamia nuts. Remember, cooking damages fats, so it is best to consume most of your unsaturated fats in their raw form.

Following my comprehensive nutrition plan will automatically reduce your trans-fat intake, as it will give you a guide to focus on healthy whole foods instead of processed junk food.

Ideally, virtually all processed foodstuffs will contain either high fructose corn syrup (probably made from genetically engineered corn) and/or soybean oil — and often both. Avoiding processed foods will help you avoid the vast majority of trans-fat soybeans, loaded with glyphosate or from one of the newer soybean varieties that were created such that they do not need to be hydrogenated.

That's it, but I know it will take your effort.

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and health. Following mainstream 'nutrition' and government guidelines will only set you up to be a victim of our broken sick-care system and BIG Pharma. Dr. Mercola is one of the leaders in cutting-edge health. Don't fall for the actual "misinformation" out there.

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